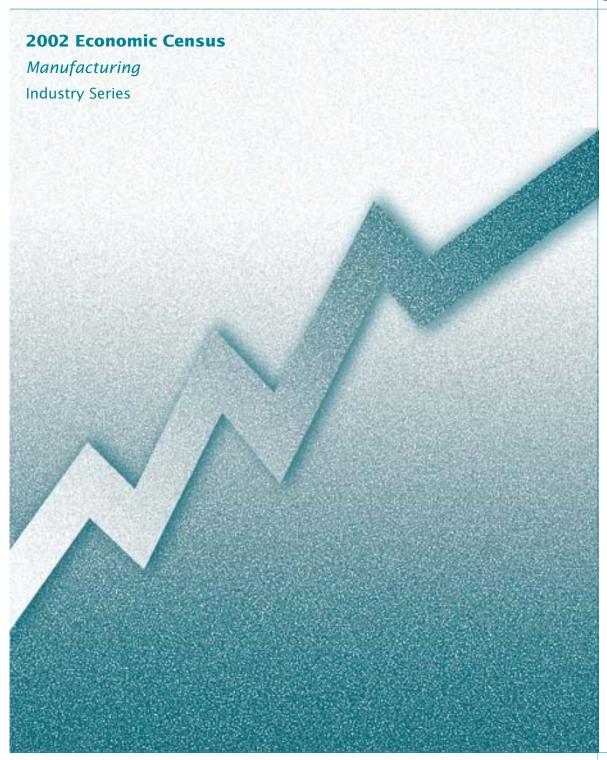
# Bare Printed Circuit Board Manufacturing: 2002

Issued August 2004

EC02-311-334412





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-- Not applicable for this report.

#### Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

		All	All employees		Production workers				Total	Total	Total capital
Industry and year <sup>1</sup>	Com- panies <sup>2</sup>	estab- lish- ments <sup>3</sup>	Number <sup>4</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)		expendi- tures (\$1,000)
334412, Bare printed circuit board											
manufacturing2002	878	936	46 890	1 653 179	33 226	73 354	940 695	3 373 527	2 718 114	6 128 781	263 236
2001	N	N	72 333	2 359 198	55 644	107 567	1 522 882	4 729 574	4 484 395	9 413 636	575 807
2000	N	N	85 120	2 982 541	68 393	146 374	2 029 598	6 626 768	6 073 410	12 532 074	738 783
1999	N	N	81 416	2 661 239	65 239	137 886	1 798 136	5 557 074	4 413 171	9 832 103	687 556
1998	N	N	78 774	2 395 819	62 507	130 783	1 573 304	5 047 653	4 144 473	9 144 266	747 589
1997	1 319	1 391	72 282	2 110 176	56 173	113 963	1 345 948	5 062 300	3 486 866	8 507 125	609 125

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

#### Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

		All establi	ishments <sup>2</sup>	All em	ployees	Pr	oduction work	kers				
Industry and geographic area	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
334412, Bare printed circuit board manufacturing												
United States.  Alabama. Arkansas California Colorado Connecticut Florida Georgia Illinois Massachusetts Michigan.	1 - 2 2 - 1 1 - 2	936 7 5 264 27 18 31 11 64 50	390 6 1 102 7 7 10 6 30 24	46 890 716 318 10 444 479 1 105 2 097 911 2 313 3 384 1 118	1 653 179 29 128 9 174 388 671 17 304 42 773 75 165 30 515 68 156 119 137 34 623	33 226 408 190 7 944 348 900 1 421 515 1 827 2 077 823	73 354 1 245 355 18 309 710 2 347 2 724 1 022 4 220 4 599 1 763	940 695 12 050 4 021 244 798 10 066 33 935 38 069 12 343 41 137 68 117 19 116	3 373 527 84 433 21 184 719 210 35 940 93 507 155 412 81 972 140 972 214 562 70 369	2 718 114 47 527 22 873 621 911 18 171 66 449 155 085 44 407 94 749 294 060 67 933	6 128 781 131 778 45 328 1 360 327 54 072 162 224 311 621 120 026 235 504 513 388 136 792	263 236 6 000 428 64 602 3 270 12 539 15 204 1 945 14 824 13 861 7 271
Minnesota New Hampshire New Jersey New York North Carolina Oklahoma Oregon Pennsylvania Texas Utah Virginia Washington Wisconsin	- 4 - 4 2 - 2 3 - 1 1 6	44 14 19 49 15 9 15 28 57 13 8 22	25 111 7 16 1 3 5 9 17 5 5 12 9	2 687 2 930 308 3 513 194 176 1 585 799 1 259 1 092 307 976 1 523	87 907 124 580 9 821 121 539 6 050 5 219 61 645 24 077 44 804 29 623 9 981 34 264 53 087	1 833 1 734 247 2 210 160 136 1 125 634 909 713 234 849 1 139	3 942 4 073 613 4 773 259 406 1 601 1 462 2 279 1 288 517 1 778 2 272	44 453 56 381 6 479 56 862 4 227 3 024 31 600 15 402 25 795 16 812 6 188 27 151 32 925	208 486 118 811 18 382 291 961 10 705 9 774 115 626 39 394 96 619 45 385 21 113 61 610 100 126	139 140 311 786 15 085 169 703 6 282 6 166 67 192 25 096 54 245 49 452 8 083 39 125 64 796	352 041 426 910 34 335 465 281 17 293 15 967 177 430 63 964 147 709 98 118 29 130 102 312 163 888	25 118 24 788 1 524 6 169 747 335 13 017 1 371 8 438 1 248 1 493 6 916 9 326

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

#### Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

ltem	Value
334412, Bare printed circuit board manufacturing	
Companies <sup>1</sup> number	878
All establishments <sup>2</sup>	936 546 290 100
All employees³         number.           Total compensation         \$1,000.           Annual payroll         \$1,000.           Total fringe benefits         \$1,000.	46 890 2 009 260 1 653 179 356 081
Production workers, average for year	33 226 34 120 33 767 32 981 31 997
Production worker hours	73 354 940 695
Total cost of materials         \$1,000.           Materials, parts, containers, packaging, etc., used         \$1,000.           Resales         \$1,000.           Purchased fuels         \$1,000.           Purchased electricity         \$1,000.           Contract work         \$1,000.	2 718 114 2 431 736 86 313 22 047 100 220 77 798
Quantity of electricity purchased for heat and power	1 349 655 -
Total value of shipments         \$1,000.           Primary products value of shipments         \$1,000.           Secondary products value of shipments         \$1,000.           Total miscellaneous receipts         \$1,000.           Value of resales         \$1,000.           Contract receipts         \$1,000.           Other miscellaneous receipts         \$1,000.	6 128 781 5 659 584 290 848 178 349 95 468 67 852 15 029
Primary products specialization ratio       percent.         Value of primary products shipments made in all industries       \$1,000.         Value of primary products shipments made in this industry       \$1,000.         Value of primary products shipments made in other industries       \$1,000.	95 6 457 495 5 659 584 797 911
Coverage ratiopercent	88
Value added\$1,000	3 373 527
Total inventories, beginning of year       \$1,000         Finished goods inventories       \$1,000         Work-in-process inventories       \$1,000         Materials and supplies inventories       \$1,000	748 029 100 128 254 125 393 776
Total inventories, end of year         \$1,000.           Finished goods inventories         \$1,000.           Work-in-process inventories         \$1,000.           Materials and supplies inventories         \$1,000.	634 517 108 284 208 829 317 404
Gross value of depreciable assets (acquisition costs) at beginning of year. \$1,000.  Total capital expenditures (new and used) \$1,000.  Buildings and other structures (new and used) \$1,000.  Machinery and equipment (new and used) \$1,000.  Automobiles, trucks, etc., for highway uses \$1,000.  Computers and peripheral data processing equipment \$1,000.  All other expenditures for machinery and equipment \$1,000.  Total retirements \$1,000.  Gross value of depreciable assets at end of year \$1,000.	3 751 778 263 236 28 360 234 876 12 316 22 053 200 507 279 449 3 735 565
Depreciation charges during year\$1,000	351 537
Total rental payments         \$1,000           Buildings and other structures         \$1,000           Machinery and equipment         \$1,000	117 316 74 218 43 098
Total other expenses <sup>4</sup> \$1,000.  Response coverage ratio <sup>5</sup> percent.  Repair and maintenance services of buildings and/or machinery <sup>4</sup> \$1,000.  Communications services <sup>4</sup> \$1,000.  Legal services <sup>4</sup> \$1,000.  Accounting, auditing, and bookkeeping services <sup>4</sup> \$1,000.  Advertising and promotional services <sup>4</sup> \$1,000.  Expensed computer hardware and supplies and purchased computer services <sup>4</sup> \$1,000.  Refuse removal (including hazardous waste) services <sup>4</sup> \$1,000.  Management consulting and administrative services <sup>4</sup> \$1,000.  Taxes and license fees <sup>4</sup> \$1,000.  All other expenses <sup>4</sup> \$1,000.	463 397 68 63 768 13 613 10 633 5 087 5 776 11 426 14 289 14 148 14 774 309 883

<sup>1</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.
2Includes establishments with payroll at any time during the year.
3Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.
4Based on Annual Survey of Manufactures (ASM) sample data.
5A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

#### Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

			All employees			oduction worke	rs		Total	Total	Total
Employment size class	E¹	All estab- lish- ments <sup>2</sup>	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	capital expendi- tures (\$1,000)
334412, Bare printed circuit board manufacturing											
All establishments  Establishments with —  1 to 4 employees 5 to 9 employees 10 to 19 employees 20 to 49 employees 10 to 29 employees 100 to 249 employees 500 to 999 employees 500 to 999 employees 1,000 to 2,499 employees 2,500 employees or more	1 9 6 5 3 1 - 1 -	936 263 152 131 182 108 59 27 12	46 890 550 1 015 1 853 5 702 7 678 8 874 9 426 i h	1 653 179 18 012 37 589 68 083 193 119 249 964 321 155 345 574 D	33 226 436 798 1 332 4 333 5 561 6 365 6 649 D	73 354 871 1 924 2 971 10 695 13 080 14 153 14 836 D D	940 695 11 094 23 332 36 853 117 356 143 970 181 132 218 243 D	3 373 527 37 925 96 009 157 040 430 853 481 452 628 526 566 133 D	2 718 114 24 792 65 240 91 055 294 802 376 920 428 866 666 783 D	6 128 781 62 713 165 652 248 350 722 876 856 335 1 062 028 1 267 989 D	263 236 4 447 8 358 13 000 35 830 33 048 52 934 56 445 D
Administrative records <sup>4</sup>	6	363	1 390	46 436	1 108	2 240	28 755	158 351	100 910	259 172	11 973

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

#### Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All	All employees		Pr	oduction work	ers		Total	Total	Total capital
		estab- lish- ments <sup>1</sup>	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
334412	Bare printed circuit board manufacturing	936	46 890	1 653 179	33 226	73 354	940 695	3 373 527	2 718 114	6 128 781	263 236
3344120	Bare printed circuit boards	936	46 890	1 653 179	33 226	73 354	940 695	3 373 527	2 718 114	6 128 781	263 236

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

<sup>&</sup>lt;sup>1</sup>Includes establishments with payroll at any time during the year.

<sup>2</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

#### Table 6a. Products Statistics: 2002 and 1997

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

		Number of		Product shipments		
Product code	Product	companies with shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)	
334412	Bare printed circuit board manufacturing	N N	X	X	6 457 495 8 724 756	
3344120	Bare printed circuit boards	N	X	×	6 457 495	
33441201	Bare printed circuit (wiring) boards	N N	ŝ	) ŝ	8 724 756 5 794 762	
3344120100	Bare printed circuit (wiring) boards <sup>1</sup>	366	X	Į Š	7 827 892 5 794 762	
3344120Y	Bare printed circuit boards, nsk, total	534 N	X	Į Š	7 827 892 662 733 896 864	
3344120YWW	Bare printed circuit boards, nsk, for nonadminstrative- record establishments	N N	×			
	1997	N N	X	x X	507 509 582 894	
3344120YWY	Bare printed circuit boards, nsk, for adminstrative-record establishments	N N	X	X	155 224 313 970	

<sup>&</sup>lt;sup>1</sup>For additional detail, see Current Industrial Report MA334Q, Semiconductors and Electronic Components.

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

# Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Not applicable for this report.]

## Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
334412	Bare printed circuit board manufacturing		
00900001	Total materials	×	2 431 736 3 075 742
32721203	Tube blanks	ŝ	3 073 742 D 1 659
33441200	Printed circuit boards (without inserted components) for electronic circuitry	X X X X X	306 603 522 536
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components)	×	189 518
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry		104 155 282 979
33441400	Capacitors for electronic circuitry	X X X	122 456 81 932 37 014
33441500	Resistors for electronic circuitry		74 148
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes)	X	25 880 77 623
32518835	1997.     Silicon, hyperpure	X X X X X	117 694 D
33141911	Gold and other precious metals, all forms (including ingot, sheet, strip, solder, plating,		D 524
33141917	electrodes, etc.)	X X X X	62 534 49 824
	Doped chemicals and other doped materials for electronic use	X	31 740 34 373
33111107	Ferrites (powder and paste)	×	D 138
331000AA	Metal powders	X	826 502
33411001	Electronic computer equipment	x x	11 768 N
33593101	Current-carrying wiring devices	X X X X	5 953 2 636
33422001	Electronic communication equipment		262
33451501	Electrical instrument mechanisms and meter movements (including instrument relays)	X	D 3 983
33451503	All other miscellaneous electrical measuring instruments and parts	X X X X	4 193 1 671
33531211	Fractional horsepower electric motors (less than 1 hp)		N 3 477
001900B1	1997. Electrical transmission, distribution, and control equipment	X	N 12 032
33431005	Loudspeakers, microphones, and tuners (all types)	X X X X X	N 54 N
32720003	Glass and glass products (excluding windows and mirrors)		80 697
33331401	Optical instruments and lenses (excluding sighting, tracking, and fire control)	X	N D
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc	× × × × ×	D 26 749 15 768
32610011	Fabricated plastics products (excluding gaskets)	×	49 594 80 640
332000A9	Sheet metal products (excluding stampings) 1997 2002 1997	ŝ	33 359 10 911
332000AC	Metal stampings	X X X X X	2 025 3 337
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	9 036
33200033	Other fabricated metal products (excluding forgings)		3 222 18 254
33100035	Castings, rough and semifinished	X X X	16 668 D D
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)		D 60 810
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and	X	44 364
	fabricated metal products)	D X	D N
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	X	3 651 N
331000A7	Insulated wire and cable (including magnet wire)	X X	6 765 10 025
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	X	12 126 9 169
32611305	Resists (photosensitive resin films applied to the surface of a wafer)		45 410
32512005	Commodity gases	$\hat{\mathbf{x}}$	54 814 2 803
32518843	1997   Speciality gases	X X X X X	897 1 239
	1997		385
32599217	Masks	X X X X	2 330 6 719
33141957	Silicon chips	X	10 914 D
32510074	Solvents	X	5 674 N

See footnotes at end of table.

### Table 7. Materials Consumed by Kind: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
334412	Bare printed circuit board manufacturing—Con.		
32561000	Cleaning compounds	X	1 336
00970099	All other materials and components, parts, containers, and supplies	Ŷ	526 417
00971000	Materials, ingredients, containers, and supplies, nsk .20021997	X X	850 444 286 542 920 456

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.